

PATENT ABSTRACTS OF JAPAN

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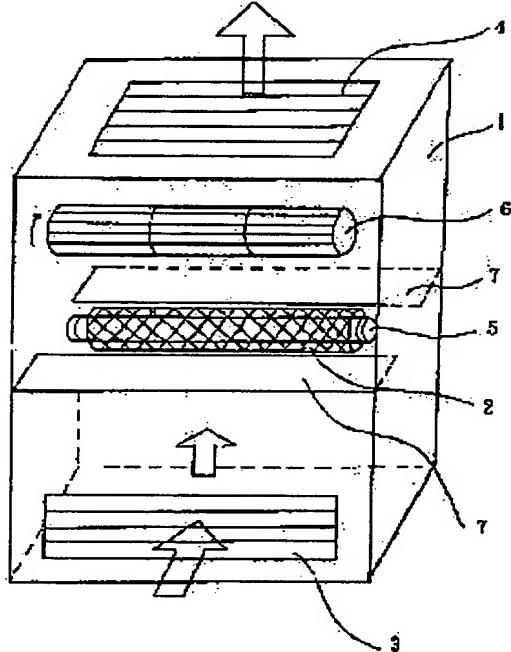
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(54) AIR CLEANER

(57) Abstract:

PROBLEM TO BE SOLVED: To efficiently remove and photo-decompose suspended particle matters, malodor substances, bacteria in atmospheric air by an inexpensive and simple structure by covering the outer circumference of cylindrical straight tube UV light source by a cylindrical photo-reactive semiconductor carrying sheet honeycomb structure.

SOLUTION: The main body 1 of this air cleaner has a closed hollow structure and is equipped with an exhaust port 4 on the upper part and a suction port 3 on the lower part. In the main body 1, a blower fan 6 to guide in polluted air, a cylindrical titanium oxide-coated sheet honeycomb structure 2 mounted on a UV light source 5 are set orthogonally crossing the polluted air flow. In the vicinity of the honeycomb structure 2, a diaphragm 7 is equipped so as to flow almost whole quantity of guided-in polluted air along the outer circumference of the honeycomb structure 2. The honeycomb structure 2 comprises a sheet carrying a photo-reactive semiconductor on the surface and the sheet inside.



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